

## 6.3 Parametric Equations

9/9/2011

### Section 6-2 p.519

2. -14

6. -44

10. 17

14.  $90^\circ$

18.  $90^\circ$

22.  $\approx 153.10^\circ$

26.  $-\frac{9}{5}\langle 1, 3 \rangle, -\frac{9}{5}\langle 1, 3 \rangle + \frac{8}{5}\langle 3, -1 \rangle$

30.  $63.87^\circ, 41.93^\circ, 74.20^\circ,$

34.

38. Parallel

42.(a).  $(6, 0)$  and  $(0, 2)$

(b).  $\approx (6.45, 0.89)$  or  $(5.55, -0.89)$



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1. Graph the parametric equation for the given parameter intervals.

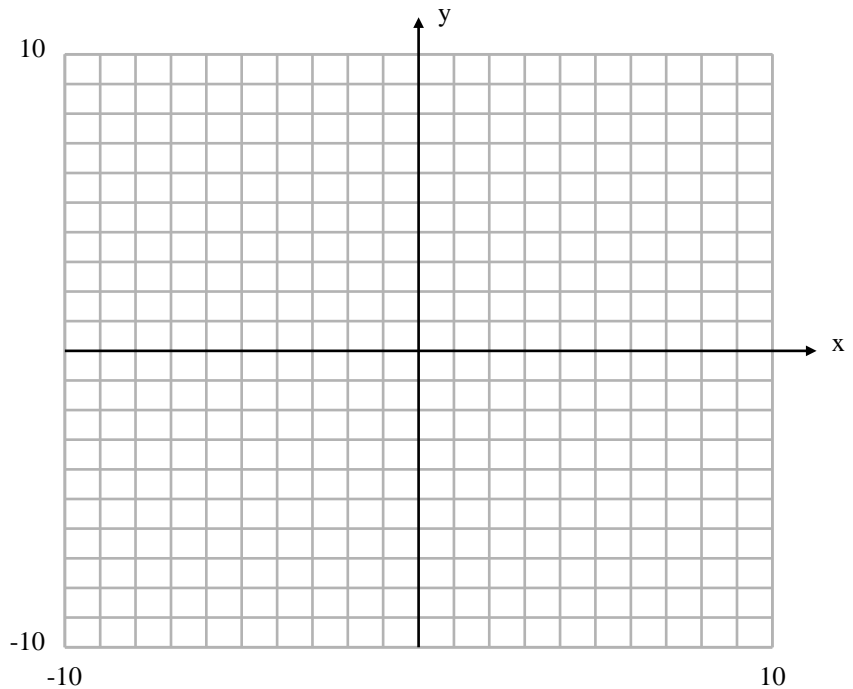
$$x = t^2 - 2$$

$$y = 3t$$

a.  $-3 \leq t \leq 1$

b.  $-2 \leq t \leq 3$

c.  $-3 \leq t \leq 3$



2. Use your grapher to graph the parametric equations  $x = t$  and  $y = t^2$  for  $-5 \leq t \leq 5$ .

3. Eliminate the parameter and identify the graph of the parametric curve.

$$x = 2 - 3t$$

$$y = 5 + t$$

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4. Eliminate the parameter and identify the graph of the parametric curve.

$$x = t \qquad y = t^2 - 3$$

5. Eliminate the parameter and identify the graph of the parametric curve.

$$x = 4\cos t \qquad y = 4\sin t \qquad 0 \leq t \leq 2\pi$$